

CCA GCA ACC AAT GAT GCC CGT T-TAMRA-3'
 CA GCA ACC AAT GAT GCC CGT T-TAMRA-3'
 CCA GCA AGC ACT GAT GCC TGT T-TAMRA-3'
 CA GCA AGC ACT GAT GCC TGT T-TAMRA-3'

Fig. 1A

	Fluorescent Dyes	
	<u>Absorbance Maxima</u>	<u>Emission Maxima</u>
Fluorescein	494nm	525nm
Tetrachloro fluorescein	521nm	536nm
TAMRA	565nm	580nm

Fig. 1B

Cleaved Fragments:

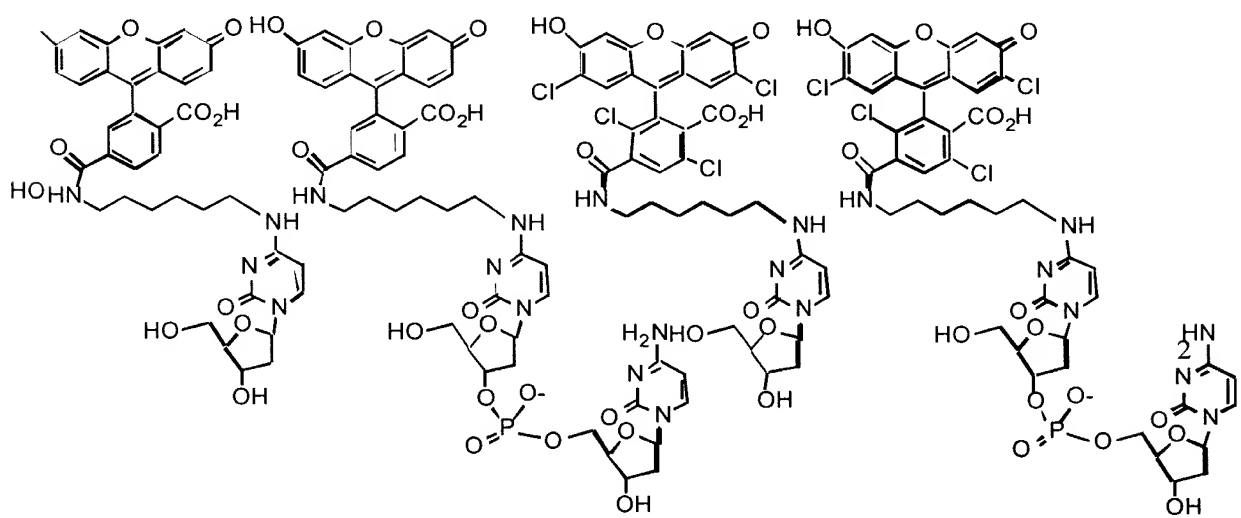


Fig. 1C

122 138 151 176 181 191 214 226 249 258 309

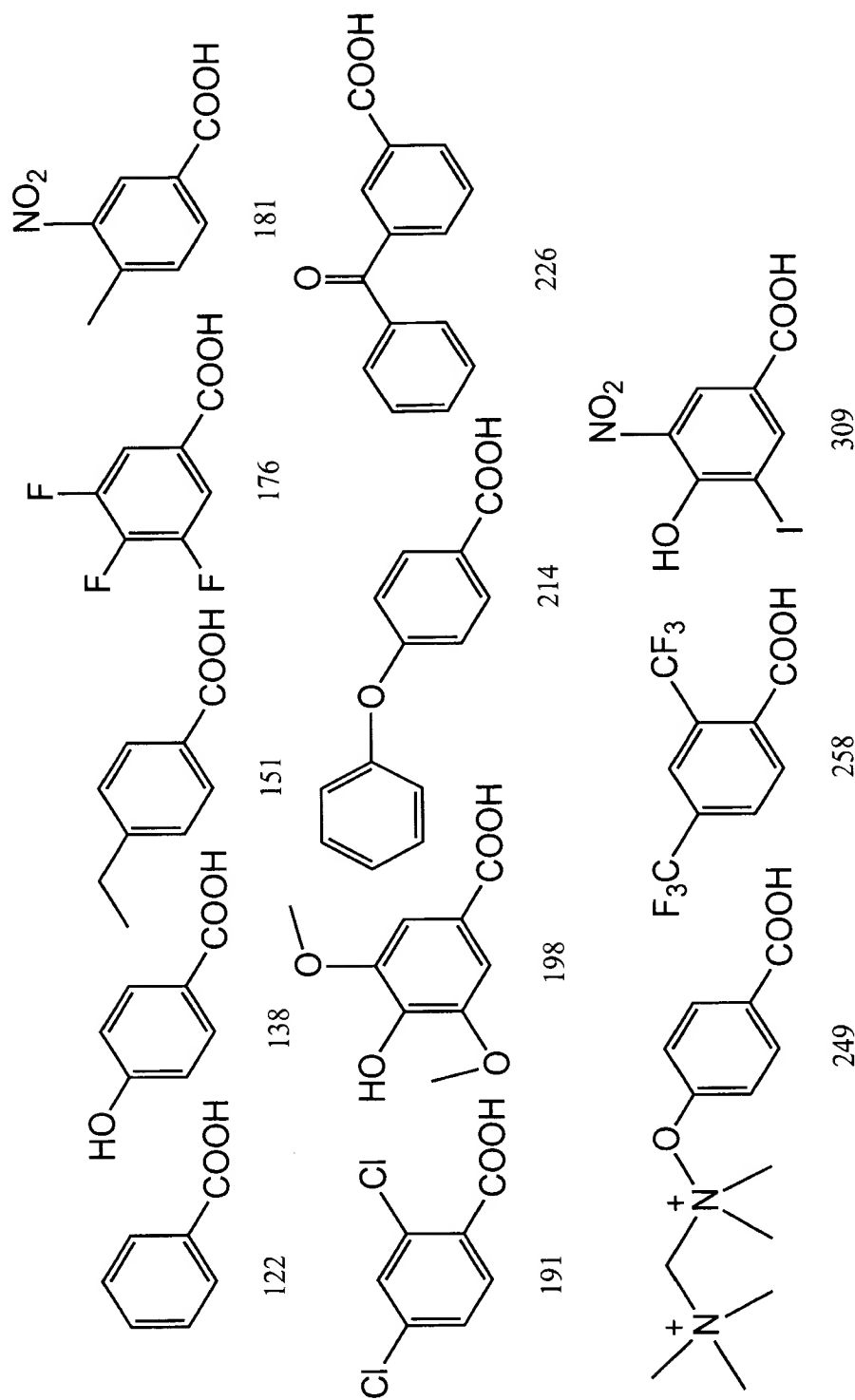


Fig. 2

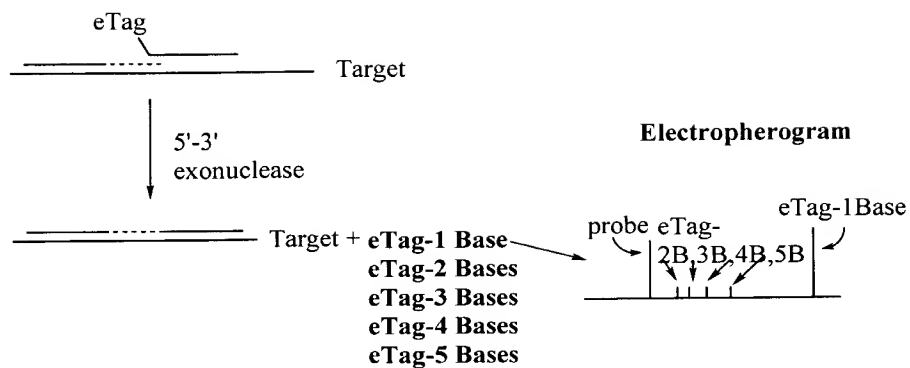


Fig. 3A

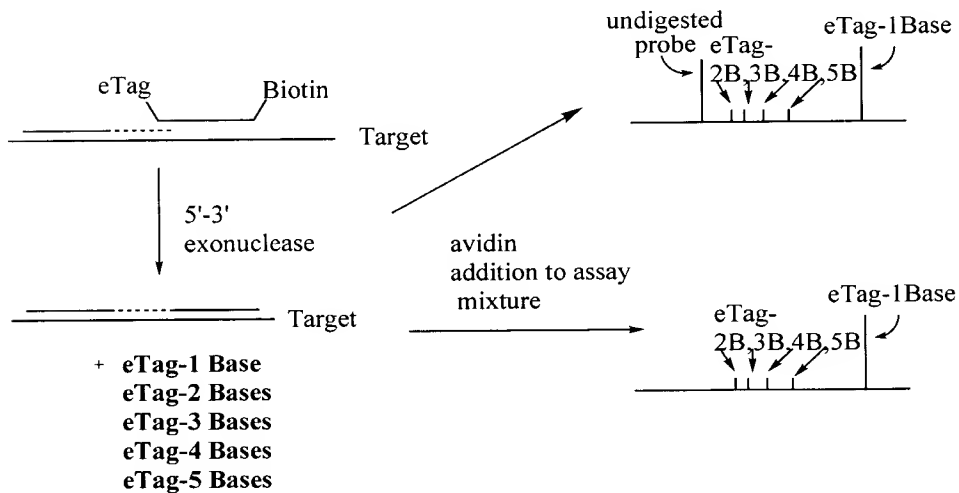


Fig. 3B

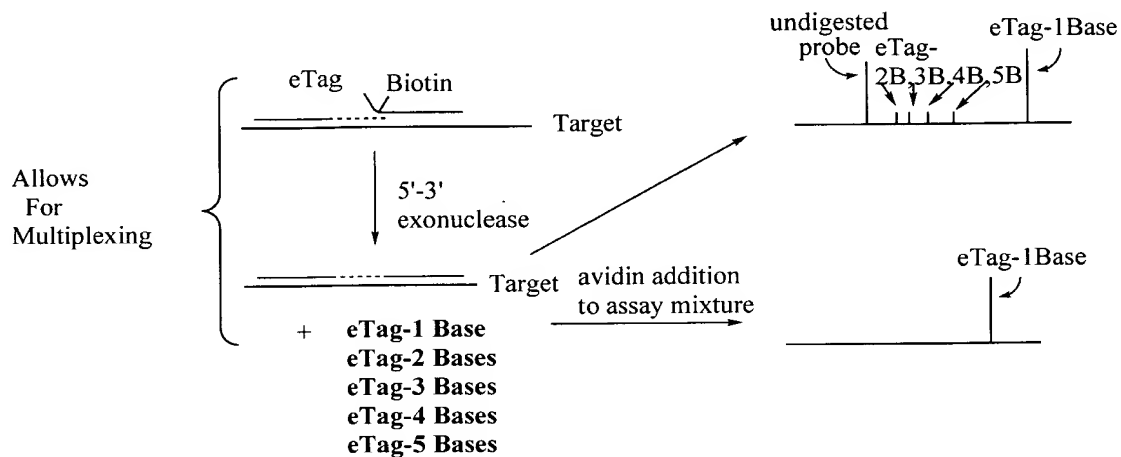


Fig. 3C

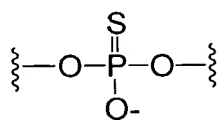


Fig. 3D

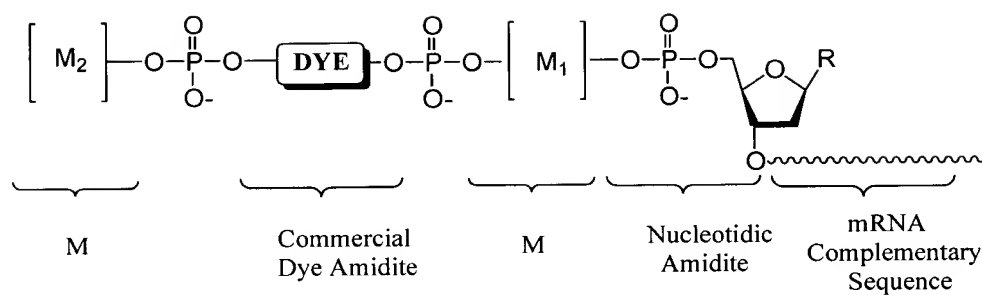


Fig. 4

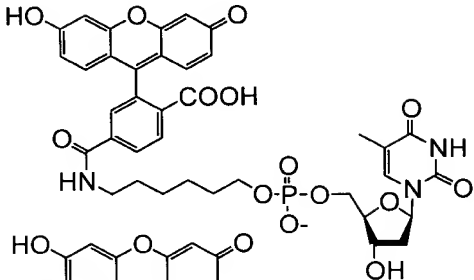
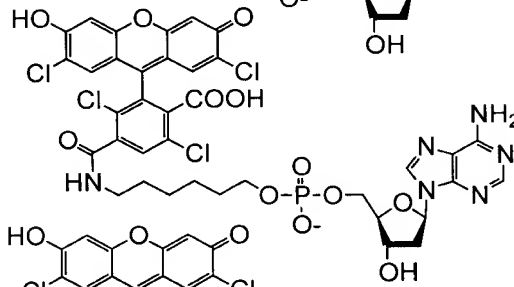
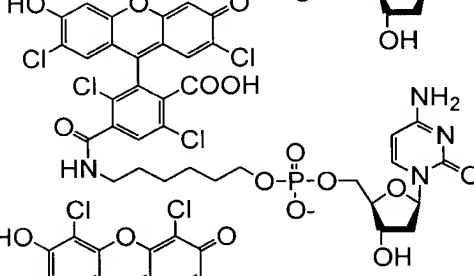
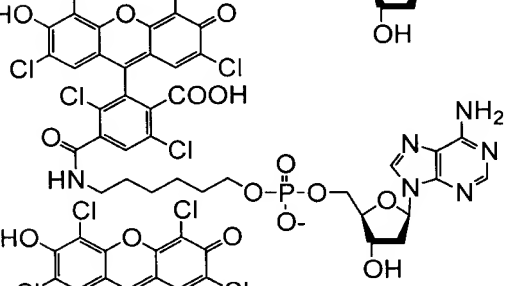
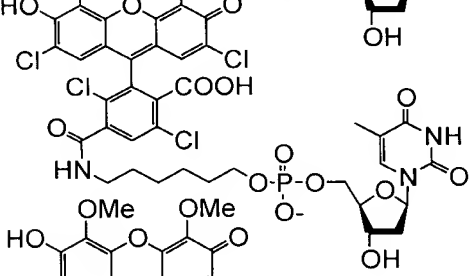
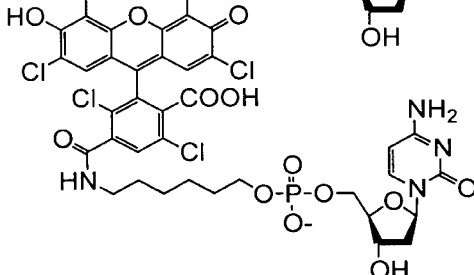
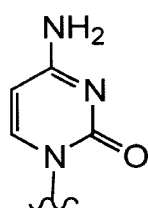
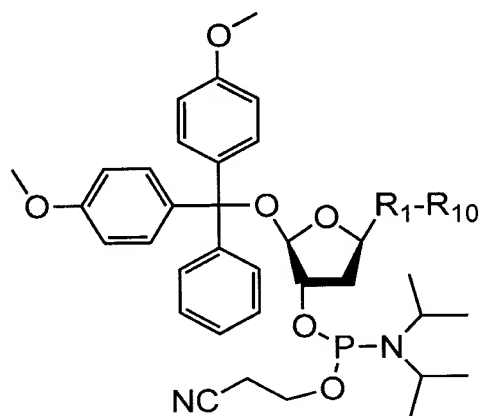
e-tag Reporter	Elution Time on CE, min	Mass
	6.4	778
	7.1	925
	7.3	901
	7.7	994
	8.0	985
	9.25	961

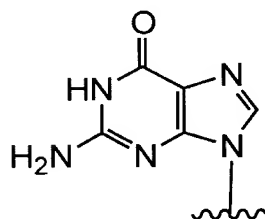
Fig. 5

e-tag Reporter	Charge	Elution Time, min
$\begin{array}{c} \text{O} \\ \parallel \\ \text{HN} \text{---} \text{C}_5 \text{---} \text{O} \text{---} \text{P} \text{---} \text{O} \text{---} \text{C}_3 \text{C}_3 \text{C}_3 \text{C}_3 \text{C}_3 \text{---} \text{dC} \\ \parallel \\ \text{O} \end{array}$	-8	12.1*
$\begin{array}{c} \text{O} \\ \parallel \\ \text{HN} \text{---} \text{C}_5 \text{---} \text{O} \text{---} \text{P} \text{---} \text{O} \text{---} \text{C}_6 \text{C}_6 \text{C}_6 \text{C}_6 \text{C}_6 \text{C}_6 \text{---} \text{dC} \\ \parallel \\ \text{O} \end{array}$	-9	12.7
$\begin{array}{c} \text{O} \\ \parallel \\ \text{HN} \text{---} \text{C}_5 \text{---} \text{O} \text{---} \text{P} \text{---} \text{O} \text{---} \text{C}_6 \text{C}_6 \text{C}_6 \text{C}_6 \text{C}_6 \text{---} \text{dC} \\ \parallel \\ \text{O} \end{array}$	-8	12.8
$\begin{array}{c} \text{O} \\ \parallel \\ \text{HN} \text{---} \text{C}_5 \text{---} \text{O} \text{---} \text{P} \text{---} \text{O} \text{---} \text{C}_6 \text{C}_6 \text{C}_6 \text{C}_6 \text{---} \text{dC} \\ \parallel \\ \text{O} \end{array}$	-7	13.1
$\begin{array}{c} \text{O} \\ \parallel \\ \text{HN} \text{---} \text{C}_5 \text{---} \text{O} \text{---} \text{P} \text{---} \text{O} \text{---} \text{C}_3 \text{C}_3 \text{C}_9 \text{---} \text{dC} \\ \parallel \\ \text{O} \end{array}$	-6	13.0
$\begin{array}{c} \text{O} \\ \parallel \\ \text{HN} \text{---} \text{C}_5 \text{---} \text{O} \text{---} \text{P} \text{---} \text{O} \text{---} \text{C}_6 \text{C}_6 \text{C}_6 \text{---} \text{dC} \\ \parallel \\ \text{O} \end{array}$	-6	13.4
$\begin{array}{c} \text{O} \\ \parallel \\ \text{HN} \text{---} \text{C}_5 \text{---} \text{O} \text{---} \text{P} \text{---} \text{O} \text{---} \text{C}_3 \text{C}_3 \text{---} \text{dC} \\ \parallel \\ \text{O} \end{array}$	-5	12.8*
$\begin{array}{c} \text{O} \\ \parallel \\ \text{HN} \text{---} \text{C}_5 \text{---} \text{O} \text{---} \text{P} \text{---} \text{O} \text{---} \text{C}_3 \text{C}_9 \text{---} \text{dC} \\ \parallel \\ \text{O} \end{array}$	-5	13.2*
$\begin{array}{c} \text{O} \\ \parallel \\ \text{HN} \text{---} \text{C}_5 \text{---} \text{O} \text{---} \text{P} \text{---} \text{O} \text{---} \text{C}_9 \text{C}_9 \text{---} \text{dC} \\ \parallel \\ \text{O} \end{array}$	-5	14.8
$\begin{array}{c} \text{O} \\ \parallel \\ \text{HN} \text{---} \text{C}_5 \text{---} \text{O} \text{---} \text{P} \text{---} \text{O} \text{---} \text{TTTdC} \\ \parallel \\ \text{O} \end{array}$	-6	17.3
$\begin{array}{c} \text{O} \\ \parallel \\ \text{HN} \text{---} \text{C}_5 \text{---} \text{O} \text{---} \text{P} \text{---} \text{O} \text{---} \text{TTdC} \\ \parallel \\ \text{O} \end{array}$	-5	17.0
$\begin{array}{c} \text{O} \\ \parallel \\ \text{HN} \text{---} \text{C}_5 \text{---} \text{O} \text{---} \text{P} \text{---} \text{O} \text{---} \text{C}_9 \text{---} \text{dT} \\ \parallel \\ \text{O} \end{array}$	-4	15.2*
$\begin{array}{c} \text{O} \\ \parallel \\ \text{HN} \text{---} \text{C}_5 \text{---} \text{O} \text{---} \text{P} \text{---} \text{O} \text{---} \text{TdC} \\ \parallel \\ \text{O} \end{array}$	-4	16.5

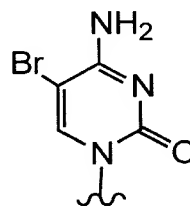
Fig. 6



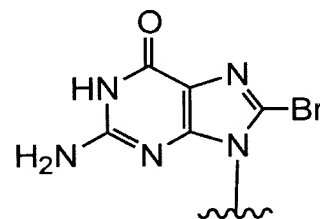
227



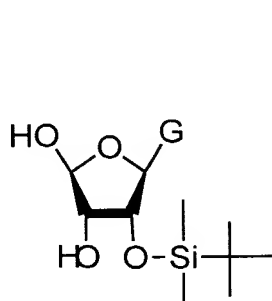
267



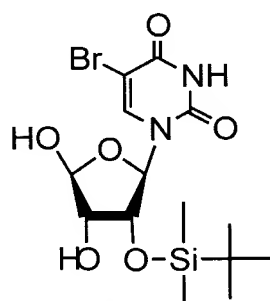
306



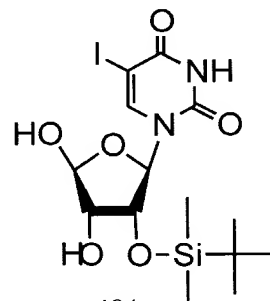
346



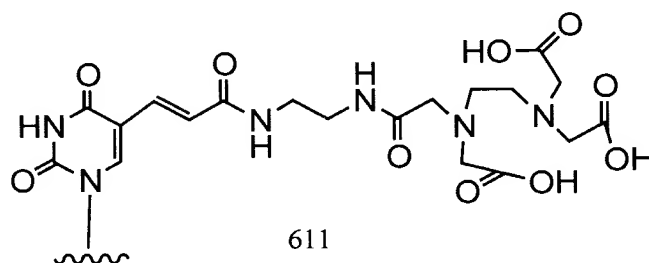
396



436



484



611

Fig. 7

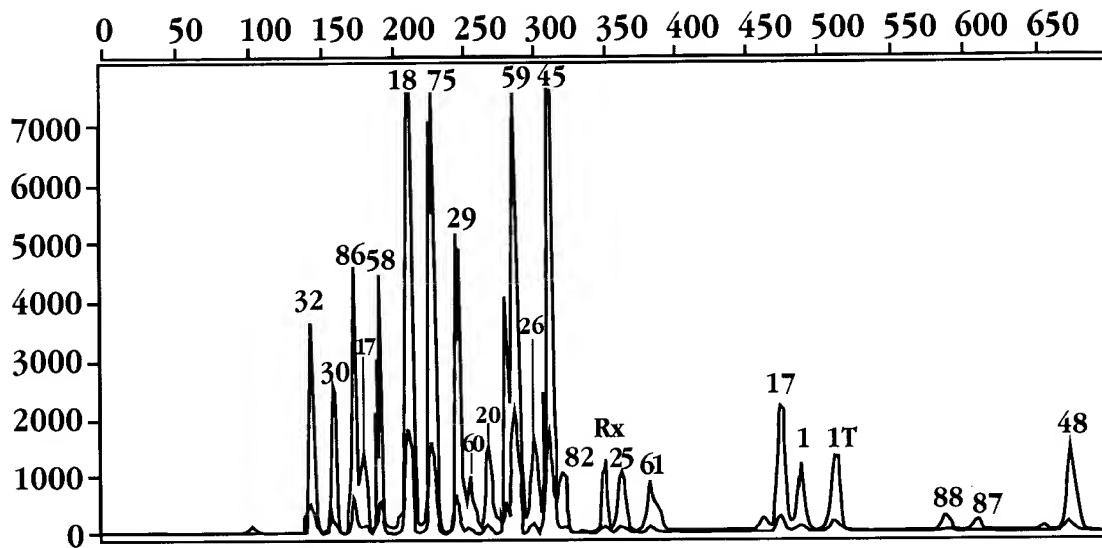


Fig. 8



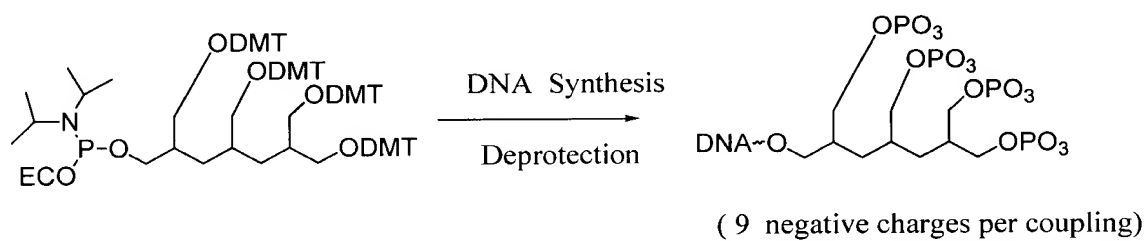


Fig. 10

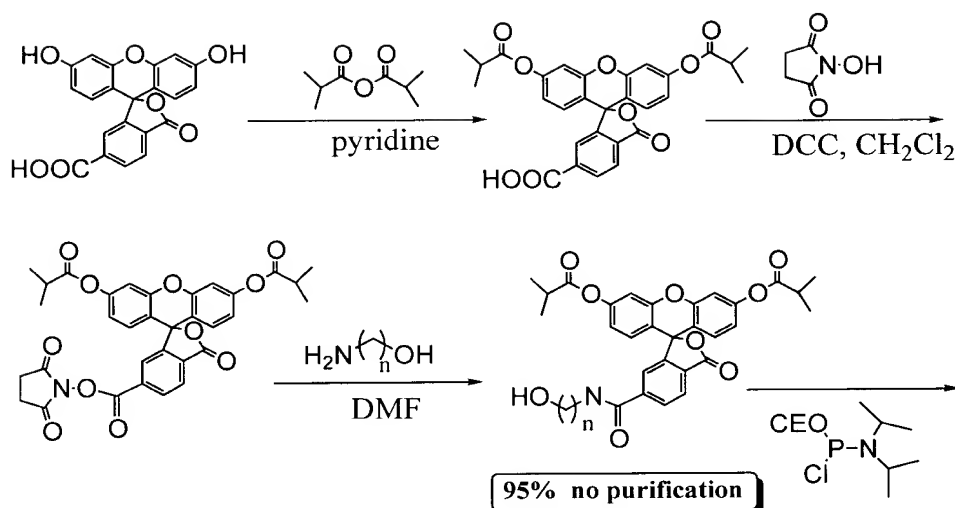


Fig. 11

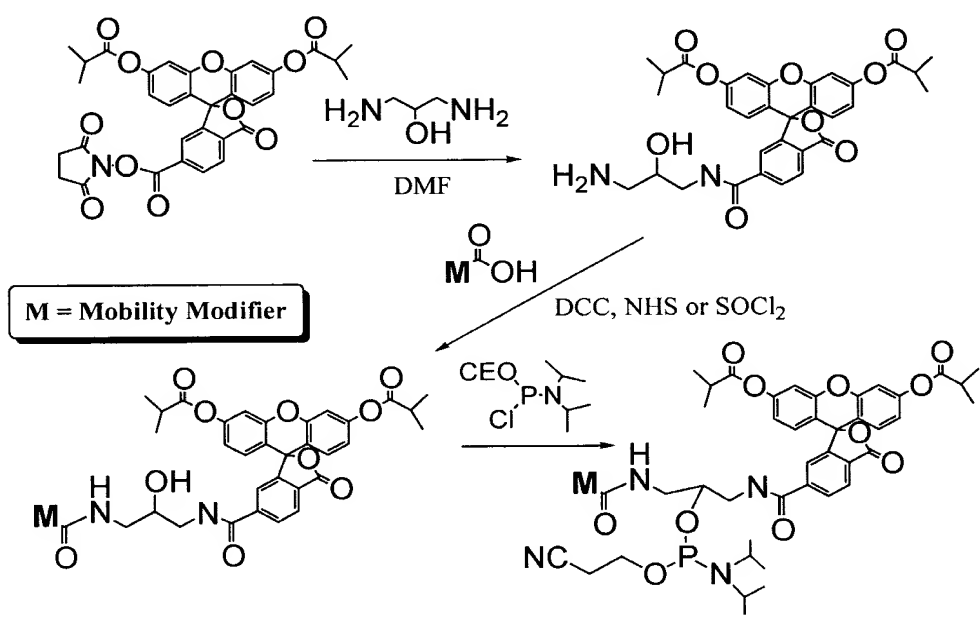


Fig. 12

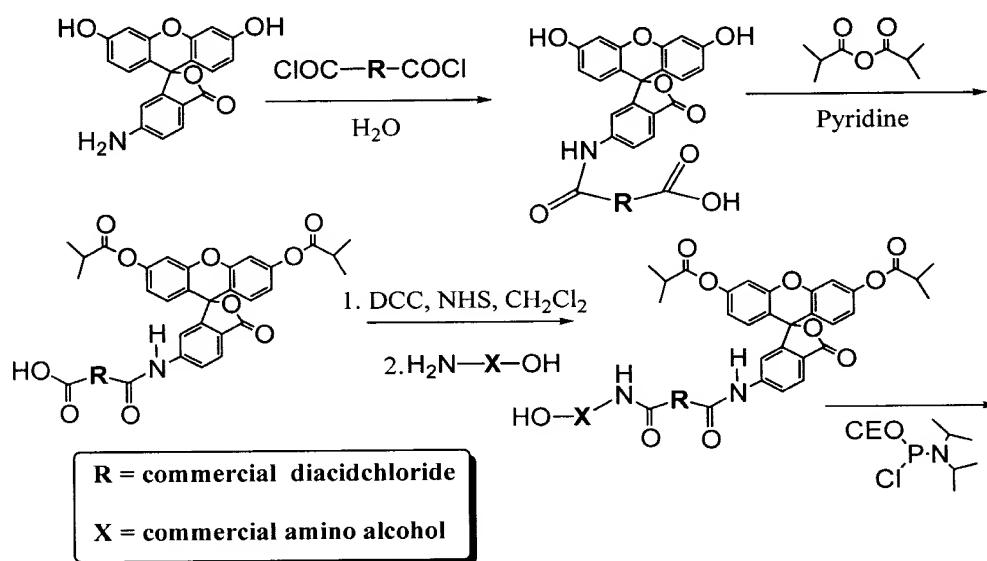


Fig. 13

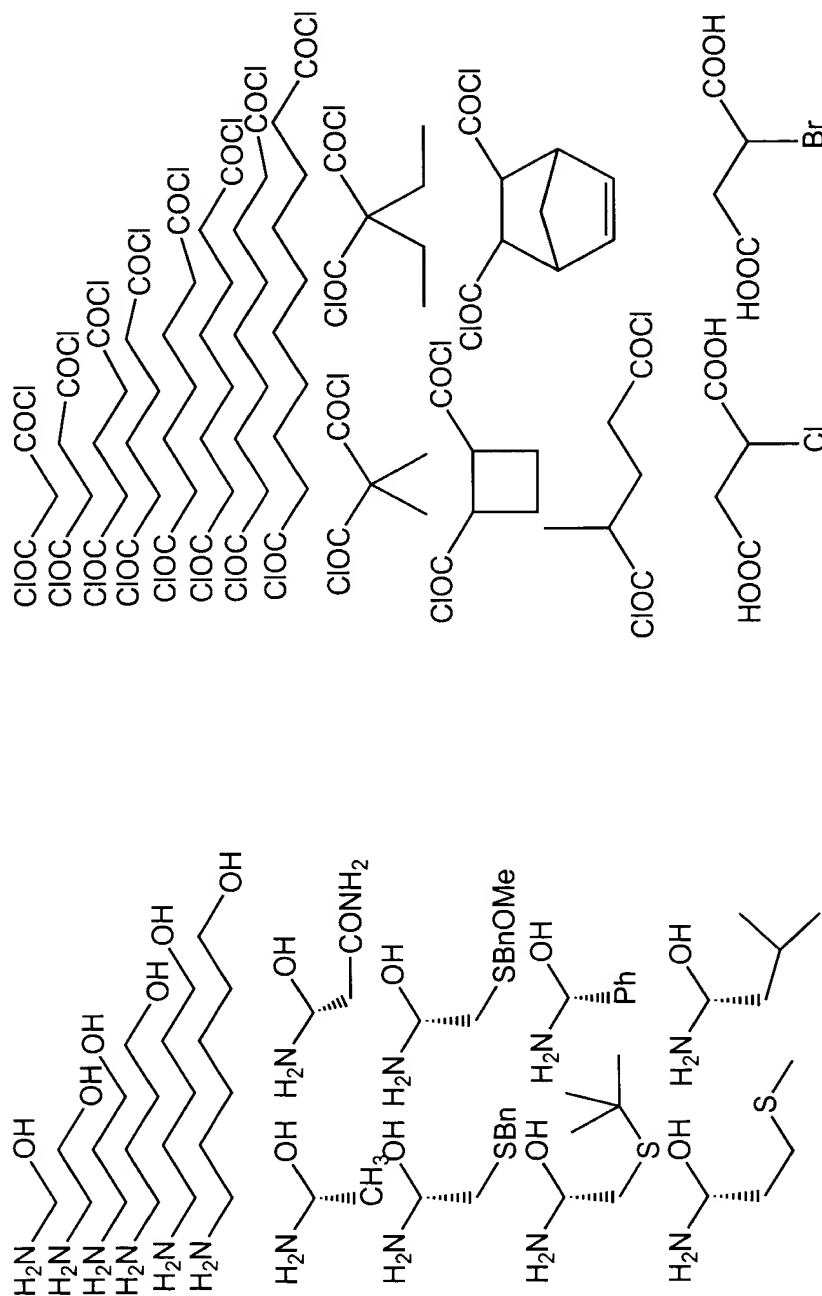


Fig. 14

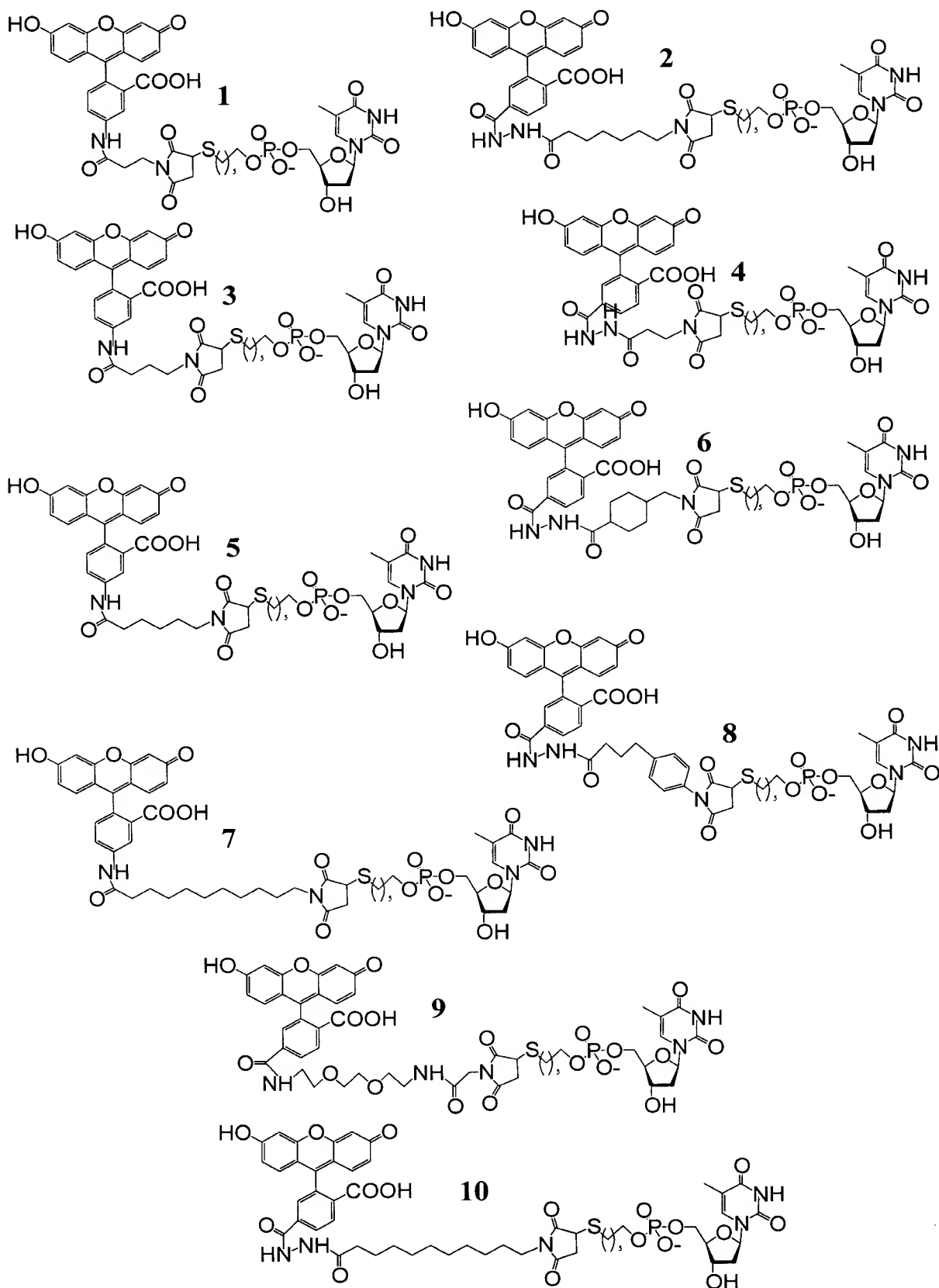


Fig. 15

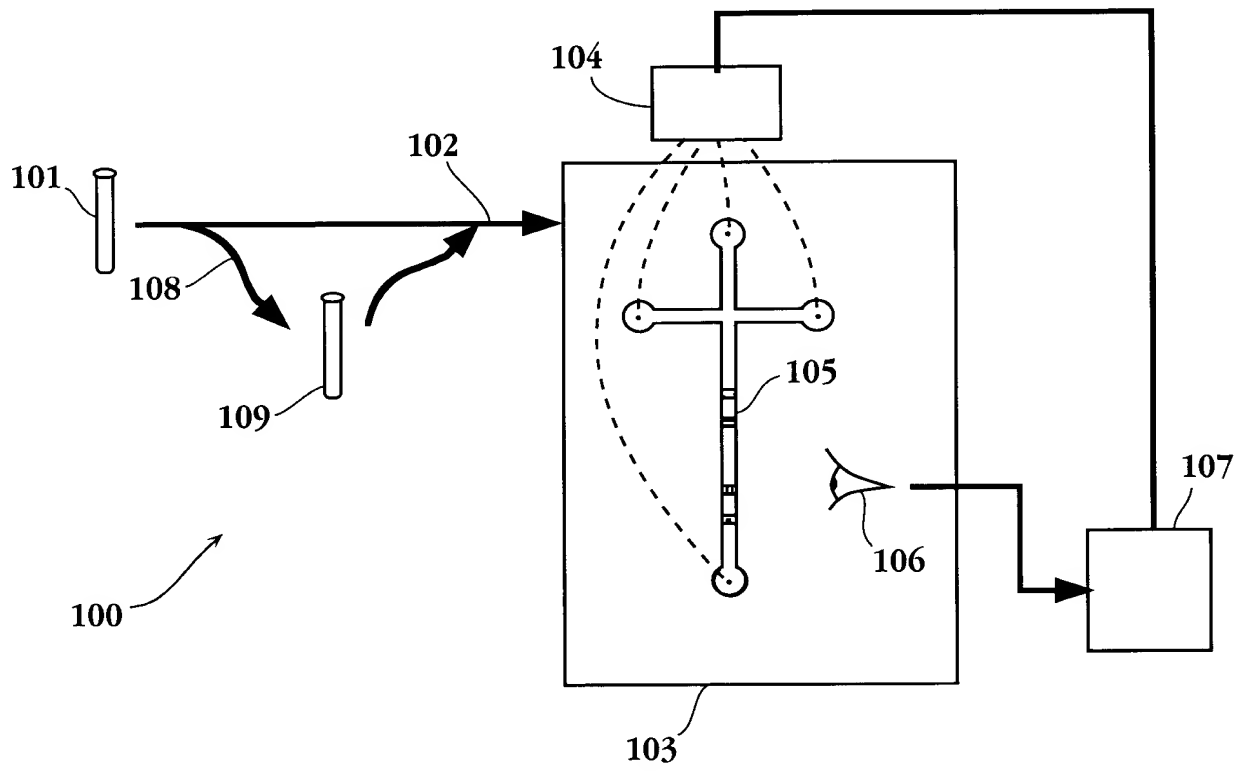
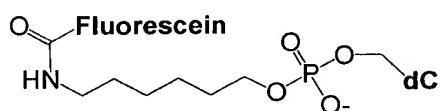
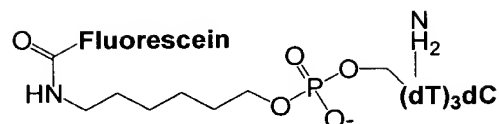


Fig. 16

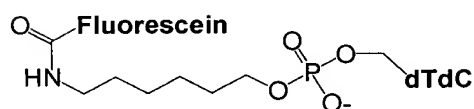
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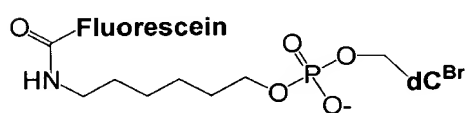
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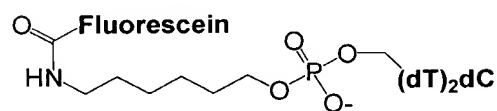
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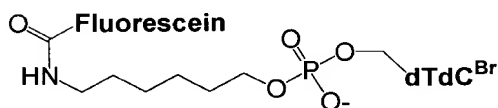
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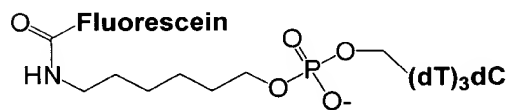
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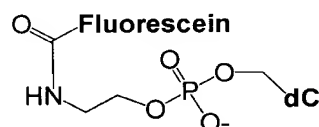
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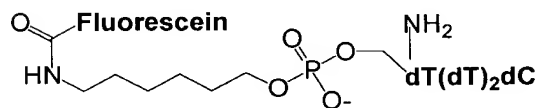
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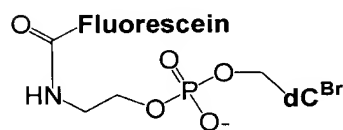
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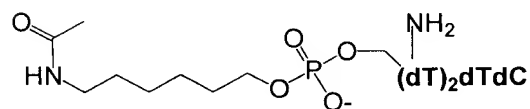
ACLA005



ACLA011



ACLA006



ACLA012

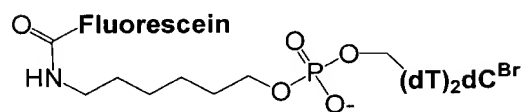


Fig. 17A

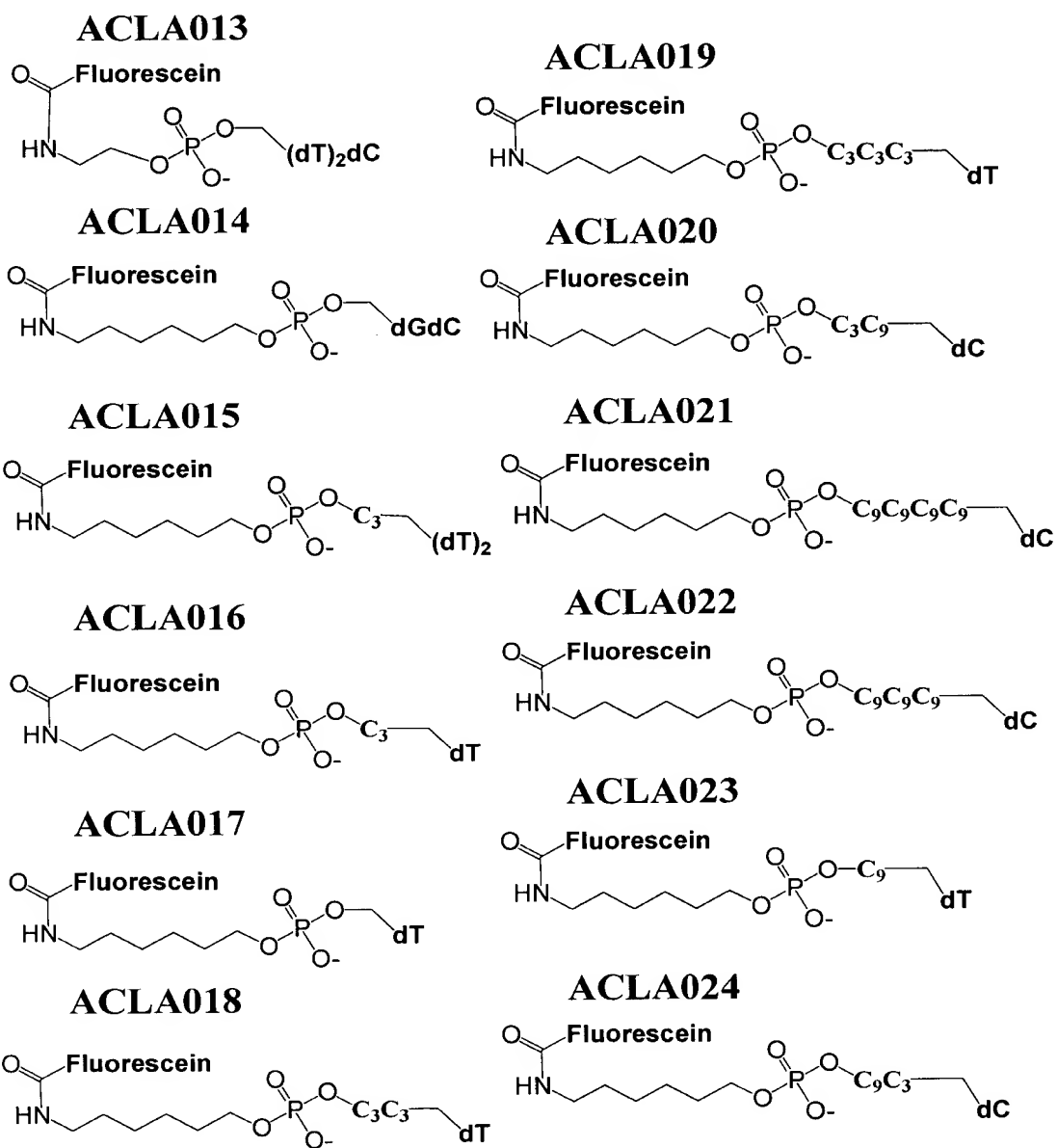
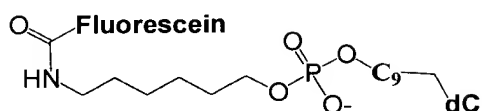
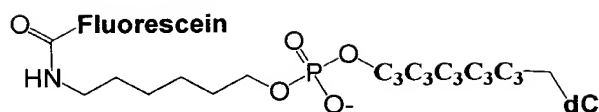


Fig. 17B

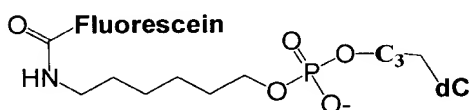
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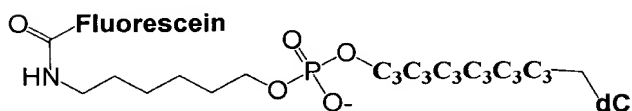
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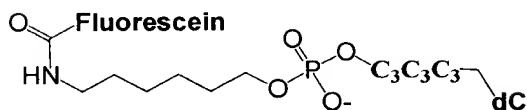
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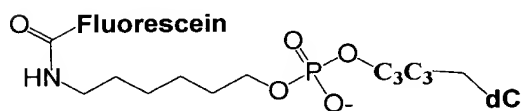
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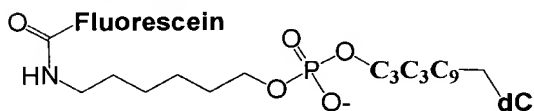
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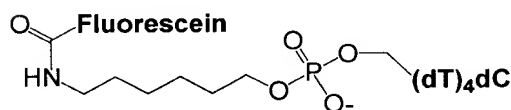
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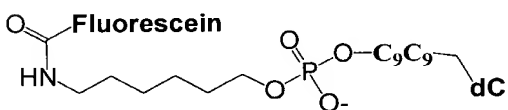
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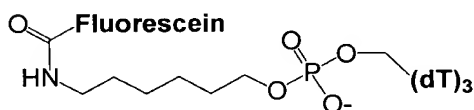
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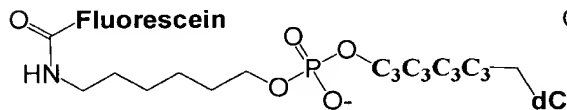
ACLA029



ACLA035



ACLA030



ACLA036

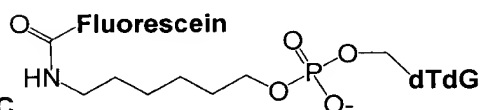
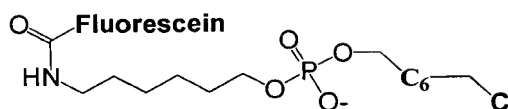
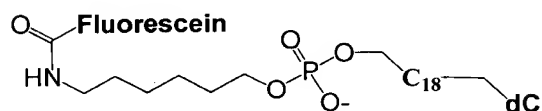


Fig. 17C

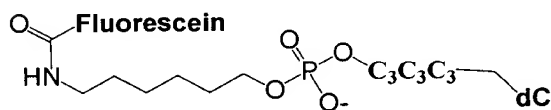
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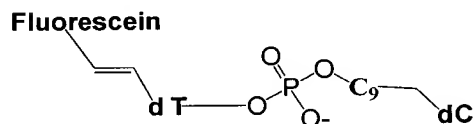
ACLA038



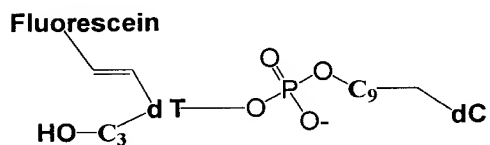
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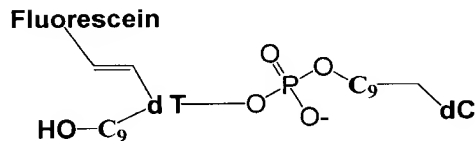
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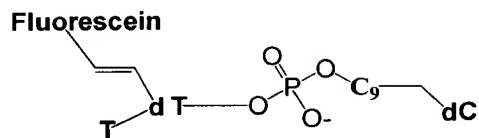
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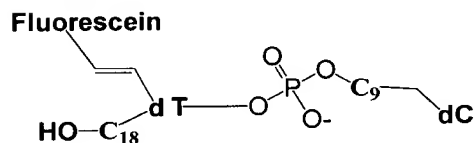
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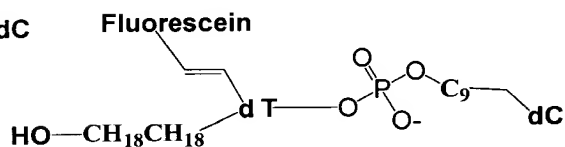
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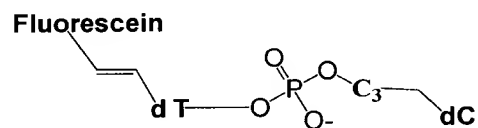
ACLA044



ACLA045



ACLA046



ACLA047

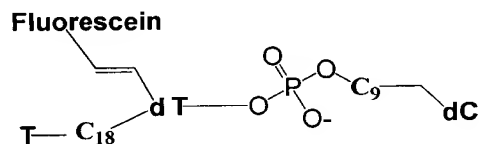
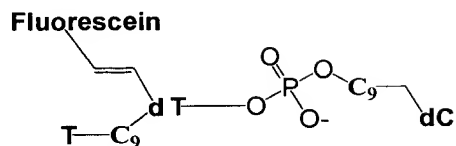
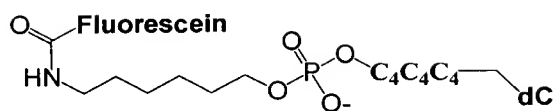


Fig. 17D

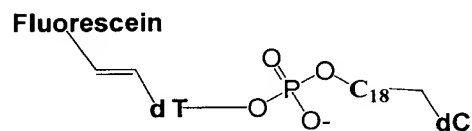
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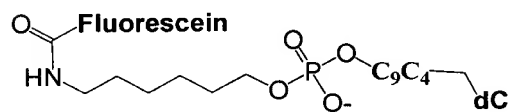
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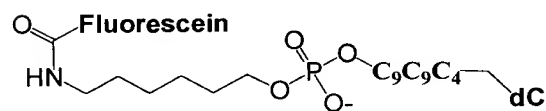
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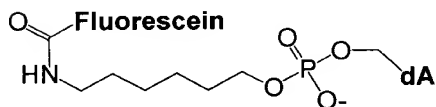
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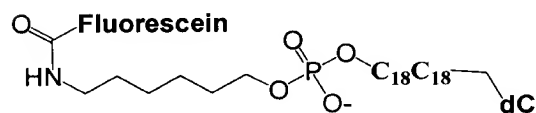
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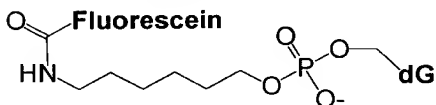
ACLA050



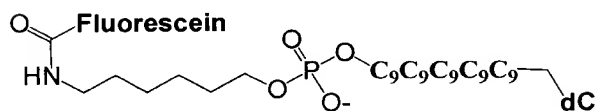
ACLA057



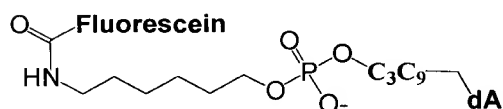
ACLA051



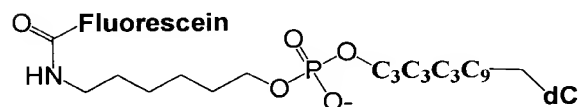
ACLA058



ACLA052



ACLA059



ACLA053

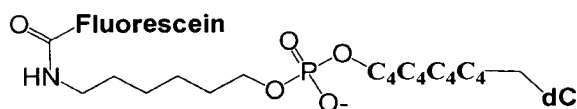


Fig. 17E

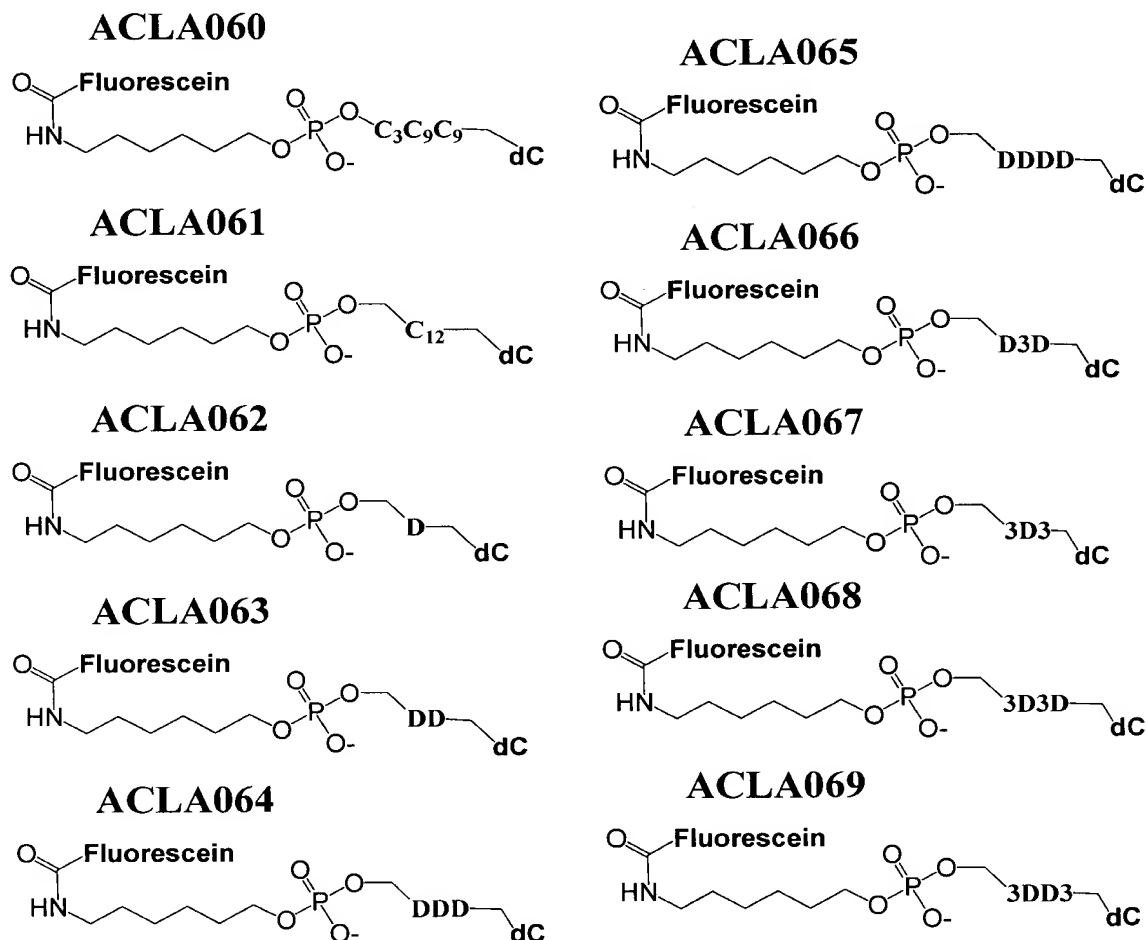
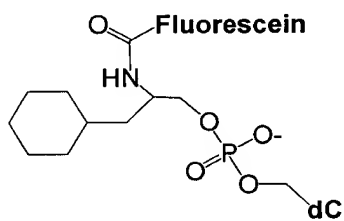
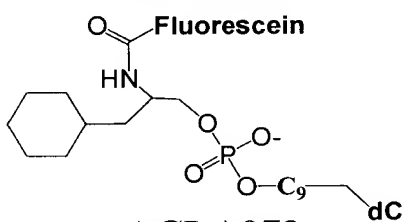


Fig. 17F

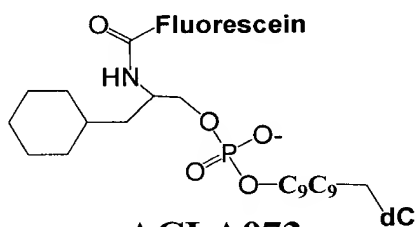
ACLA070



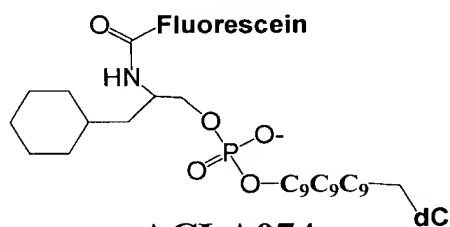
ACLA071



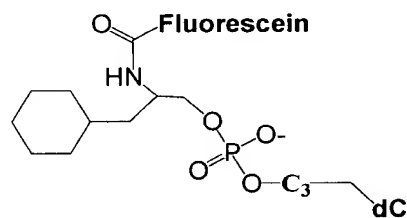
ACLA072



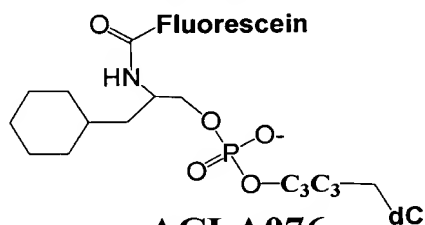
ACLA073



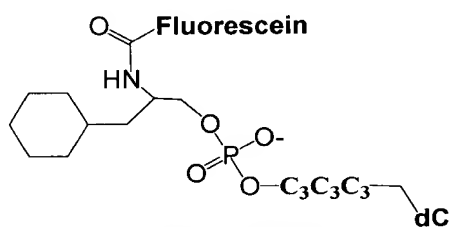
ACLA074



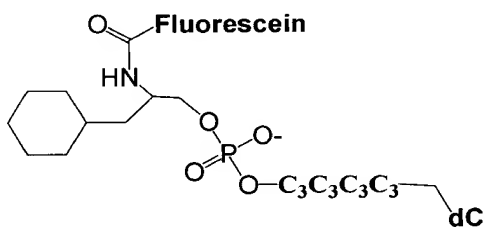
ACLA075



ACLA076



ACLA077



ACLA078

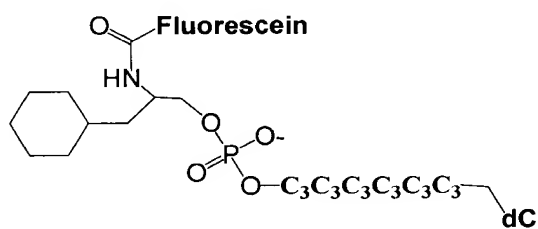
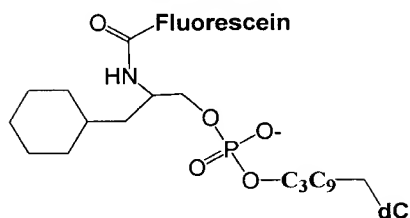
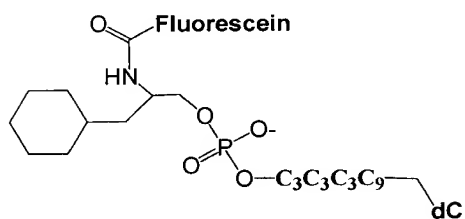


Fig. 17G

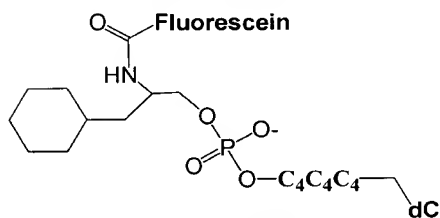
ACLA079



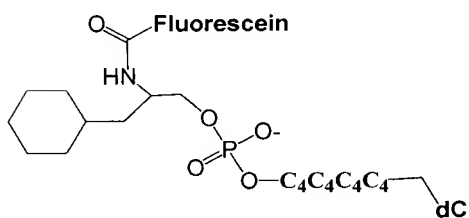
ACLA080



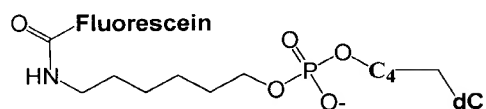
ACLA081



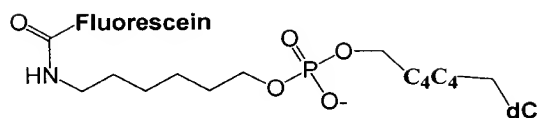
ACLA082



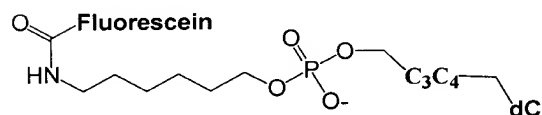
ACLA083



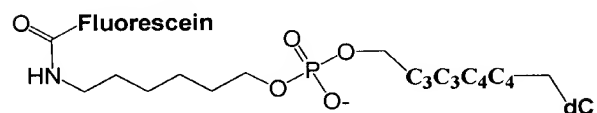
ACLA084



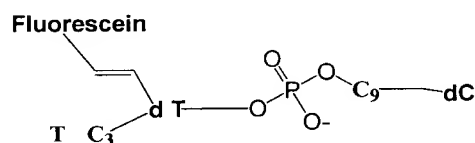
ACLA085



ACLA086



ACLA087



ACLA088

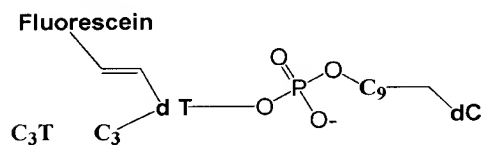
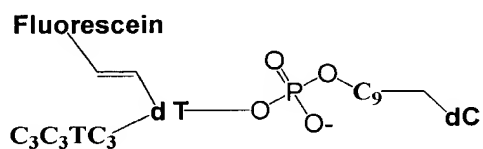
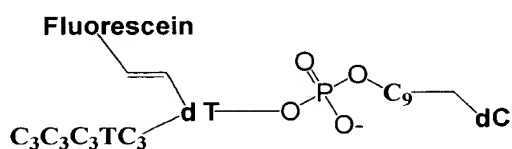


Fig. 17H

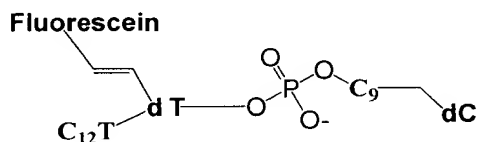
ACLA089



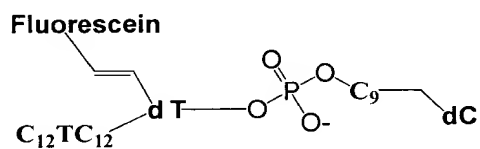
ACLA090



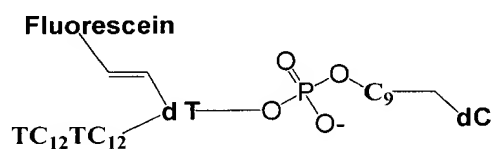
ACLA091



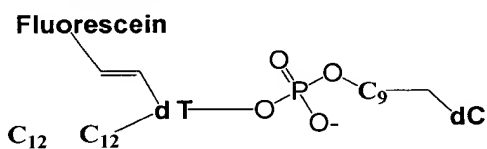
ACLA092



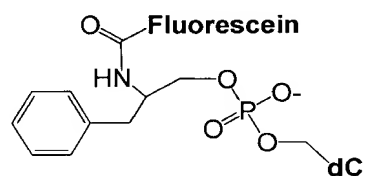
ACLA093



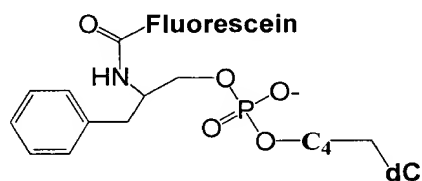
ACLA094



ACLA095



ACLA096



ACLA097

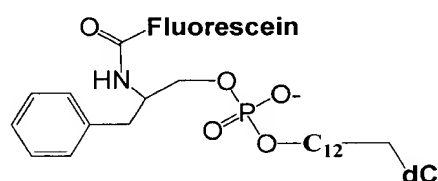


Fig. 17I

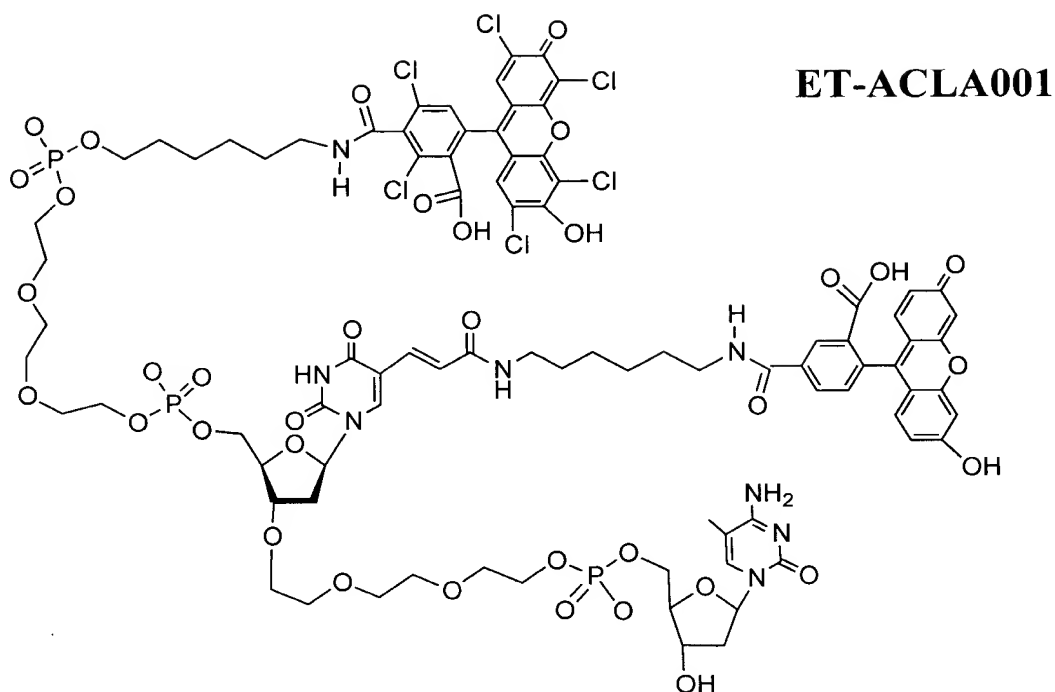


Fig. 17J

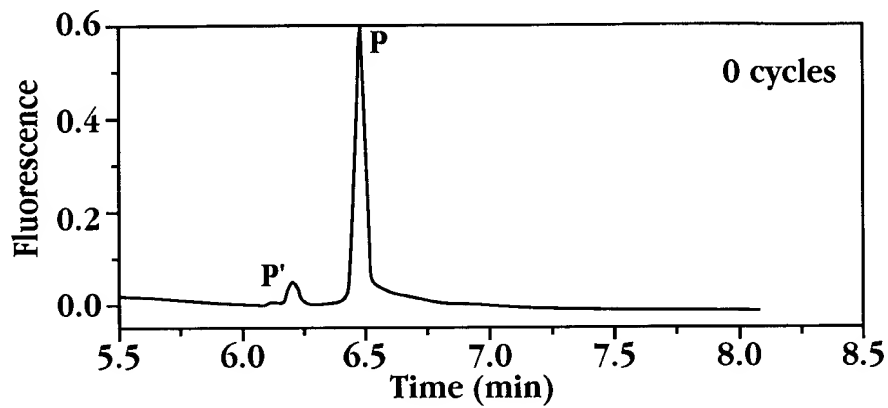


Fig. 18A

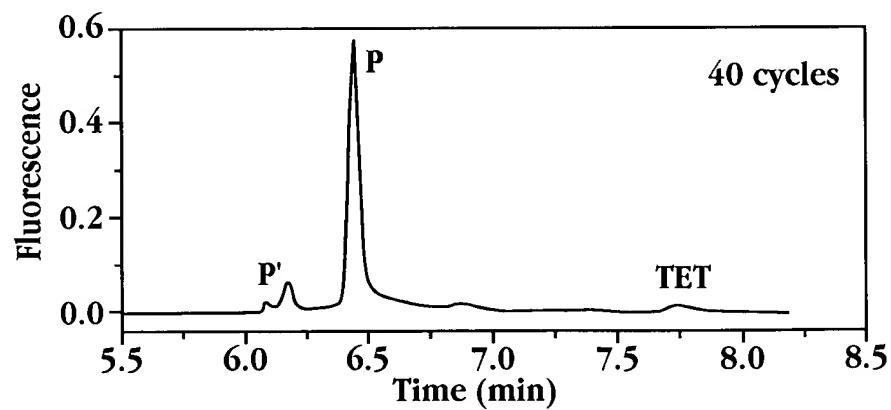
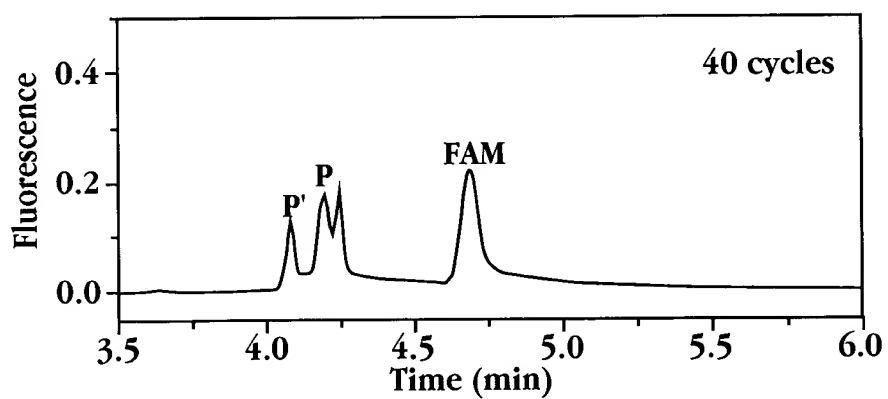
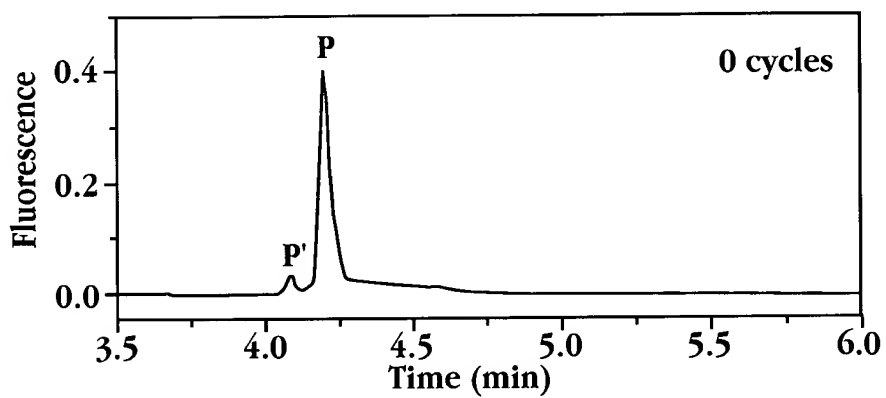


Fig. 18B



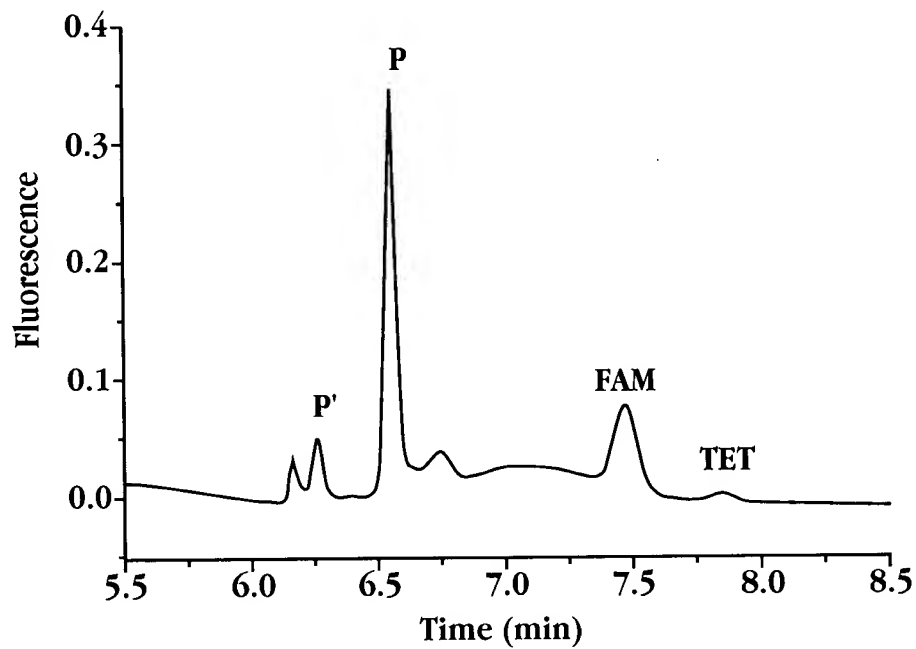


Fig. 20

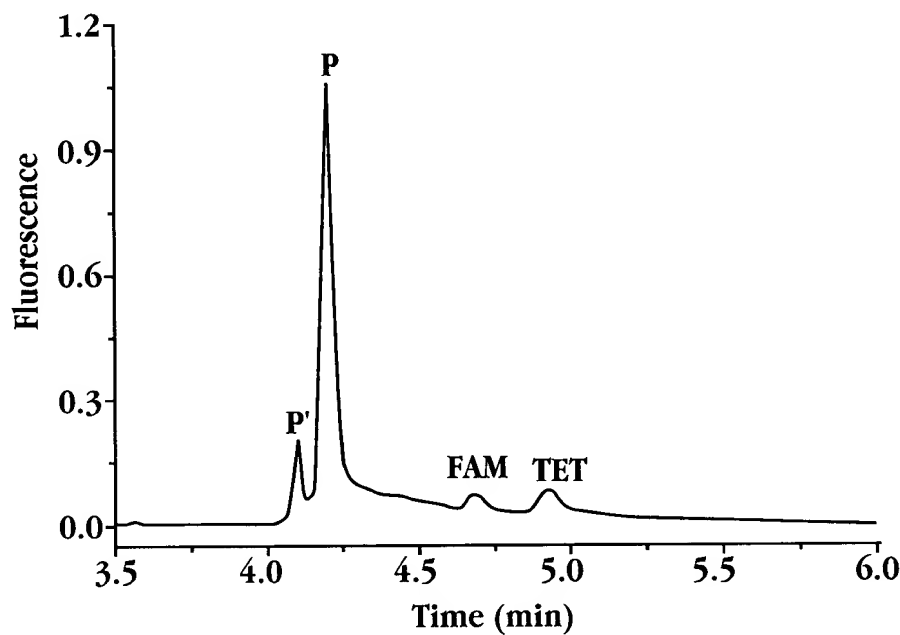


Fig. 21

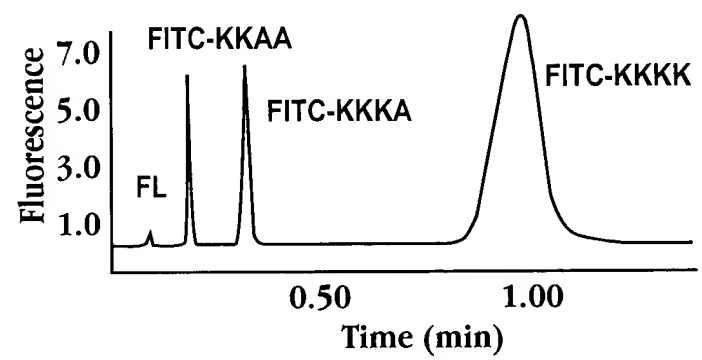


Fig. 22

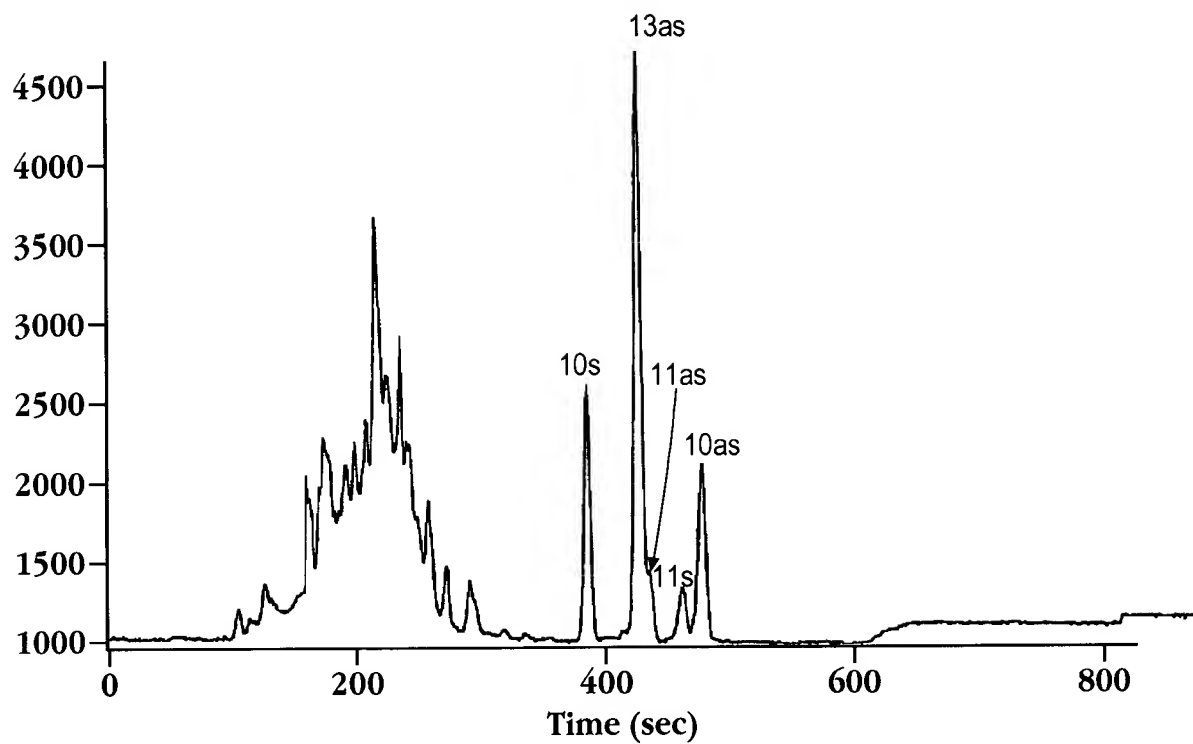


Fig. 23A

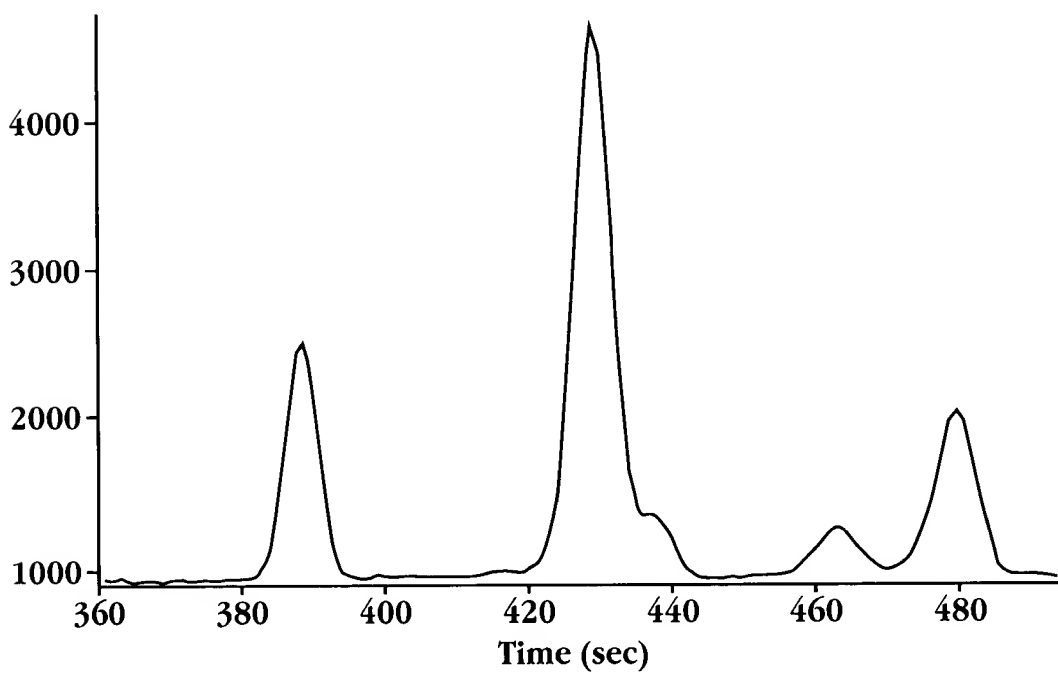


Fig. 23B

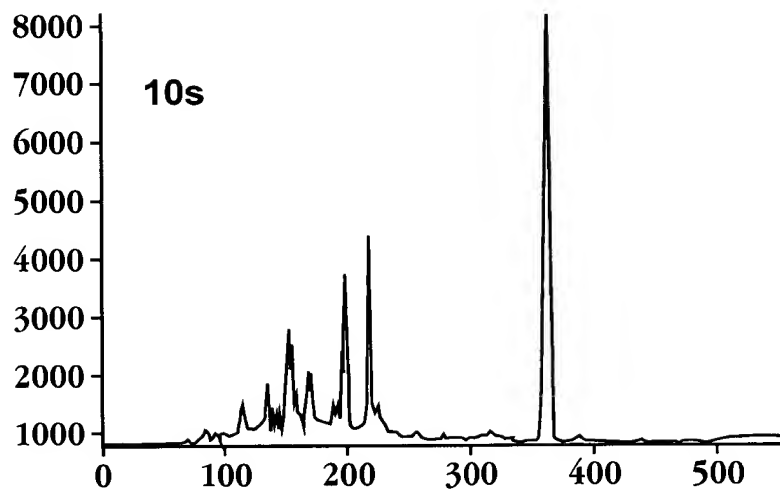


Fig. 23C

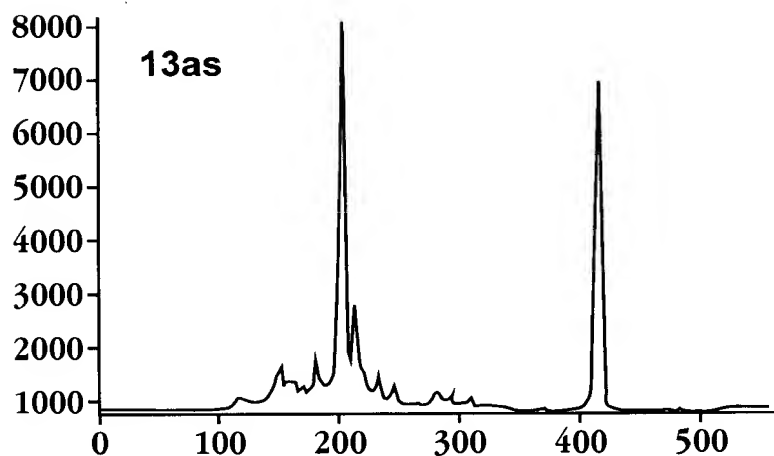


Fig. 23D

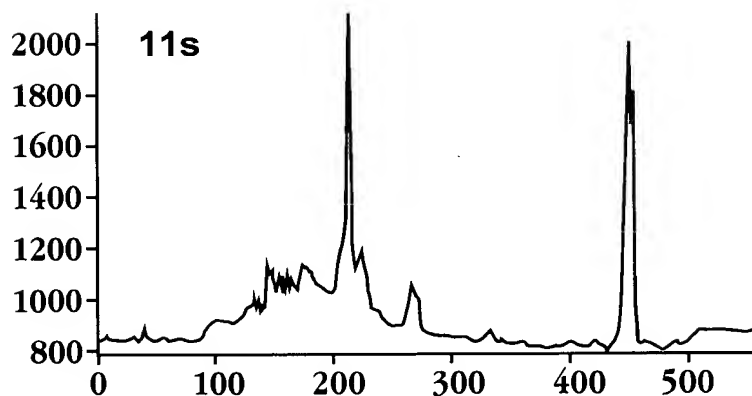


Fig. 23E

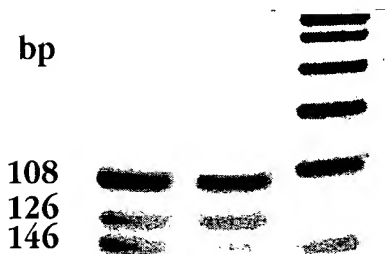


Fig. 23F

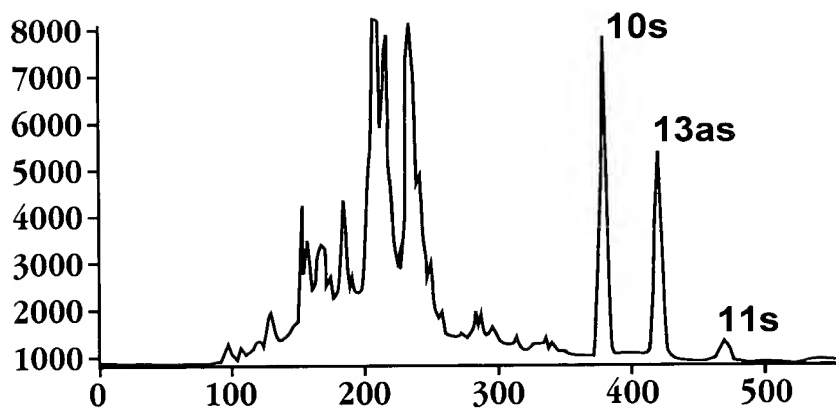


Fig. 23G

[illegible]

Fig. 24

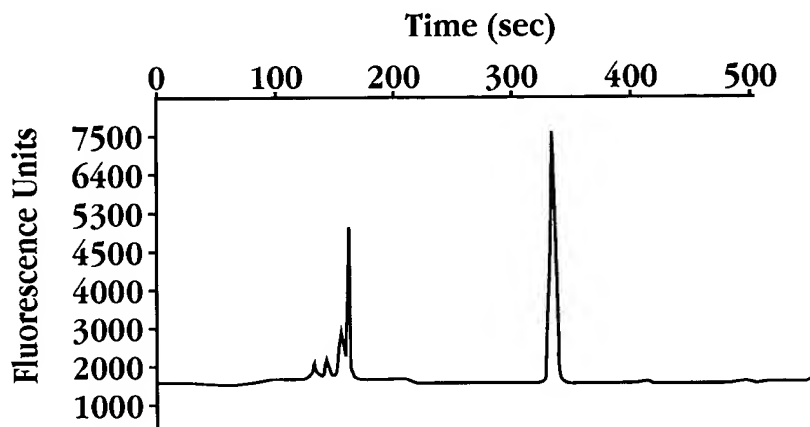


Fig. 25A

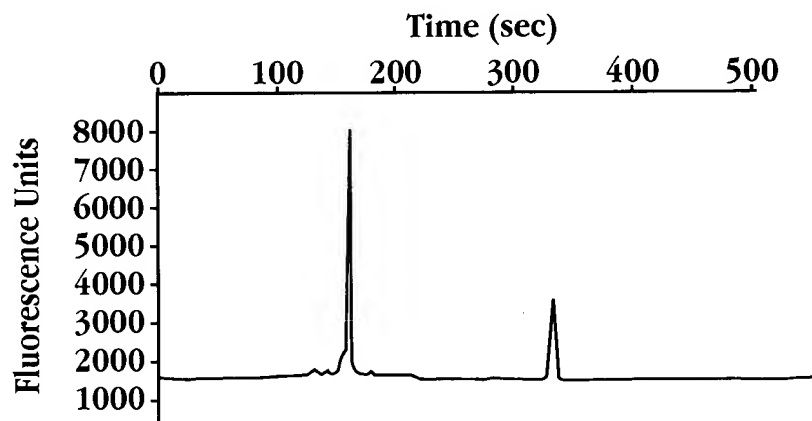


Fig. 25B

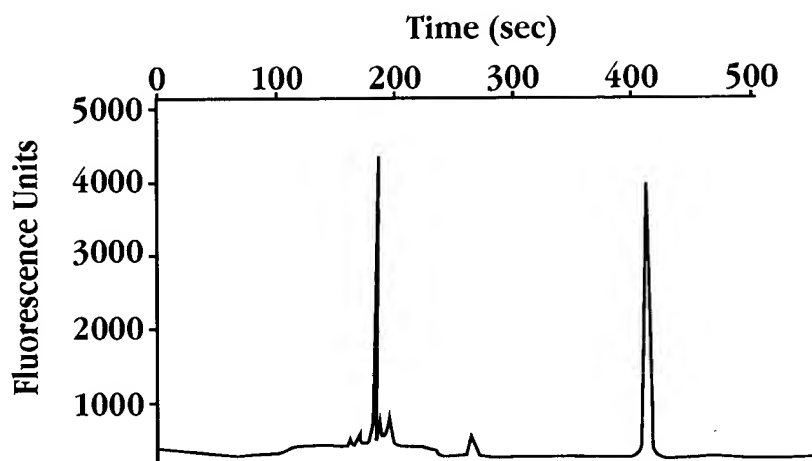


Fig. 25C

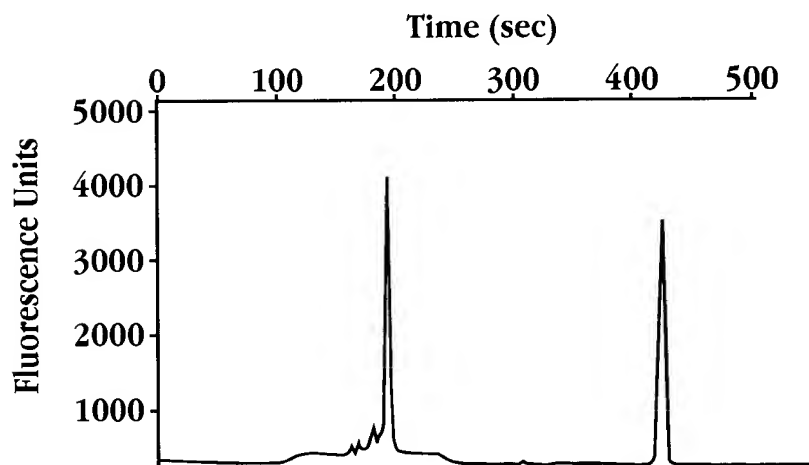


Fig. 25D

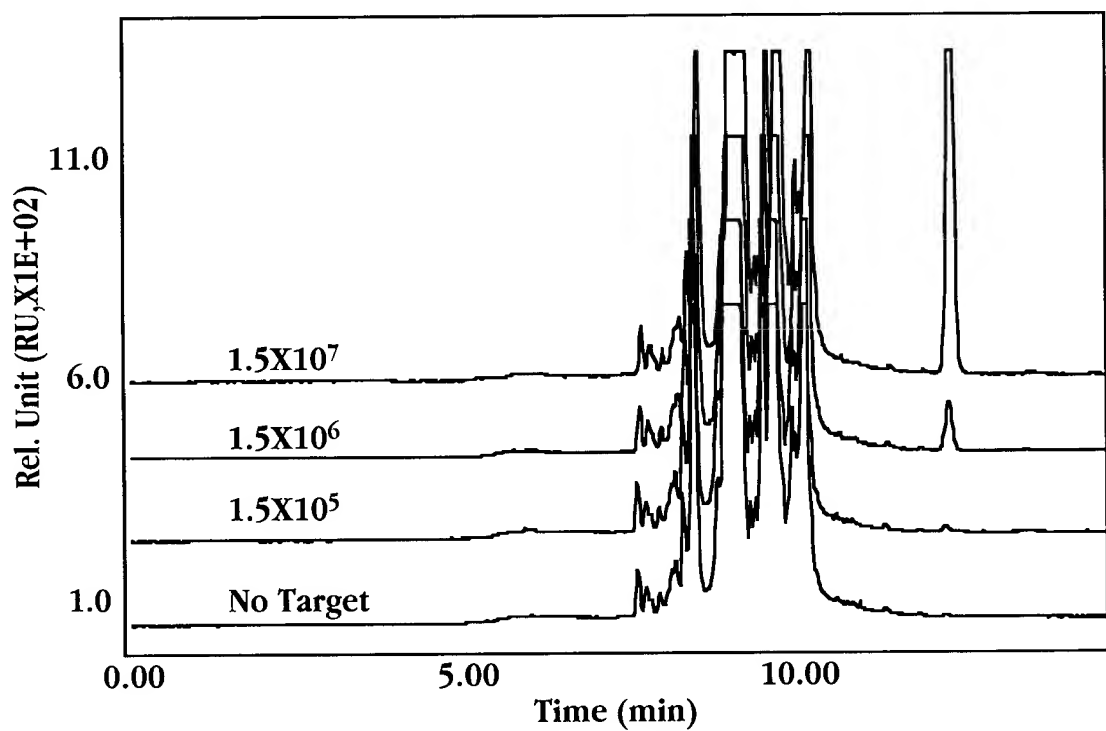


Fig. 26

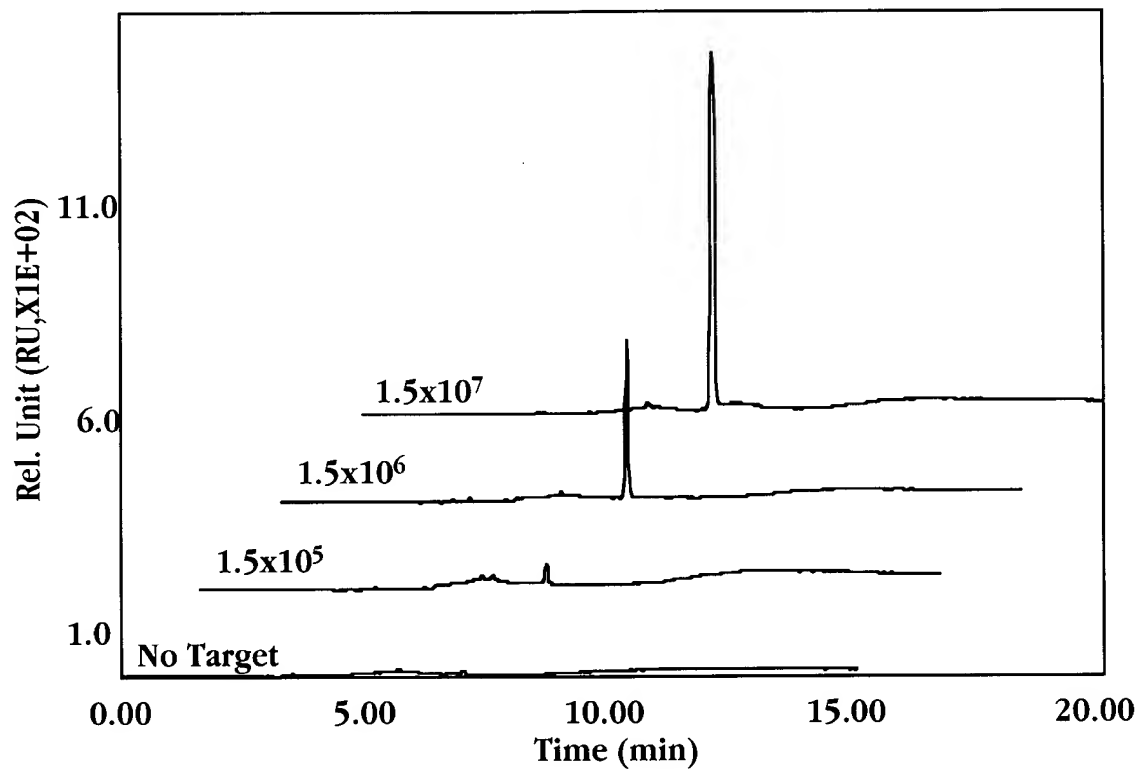


Fig. 27

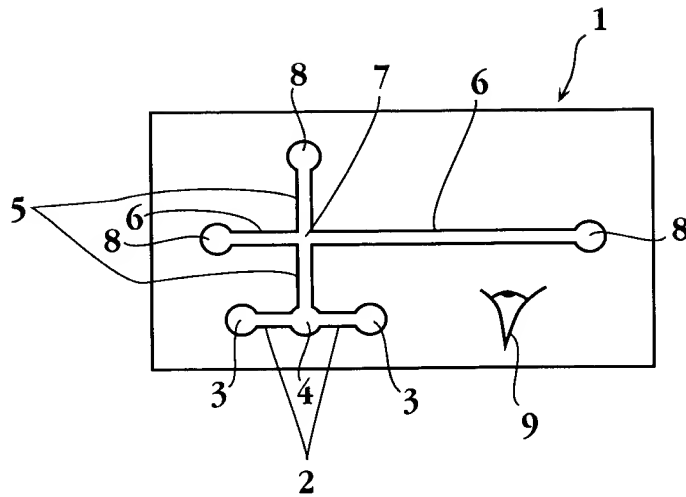


Fig. 28A

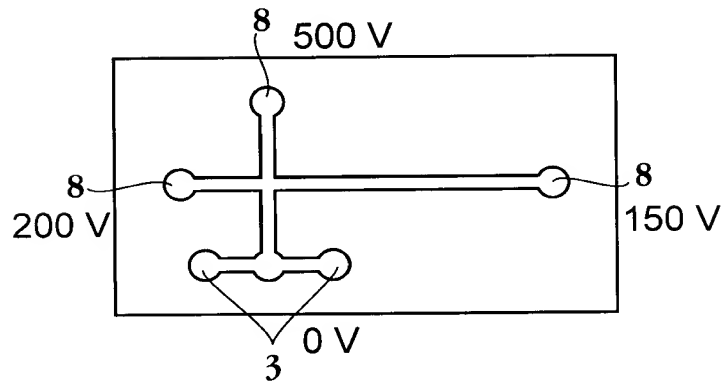


Fig. 28B

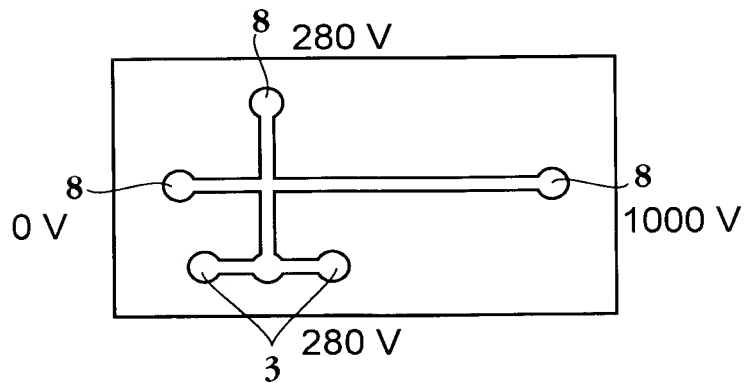


Fig. 28C

Fig. 29

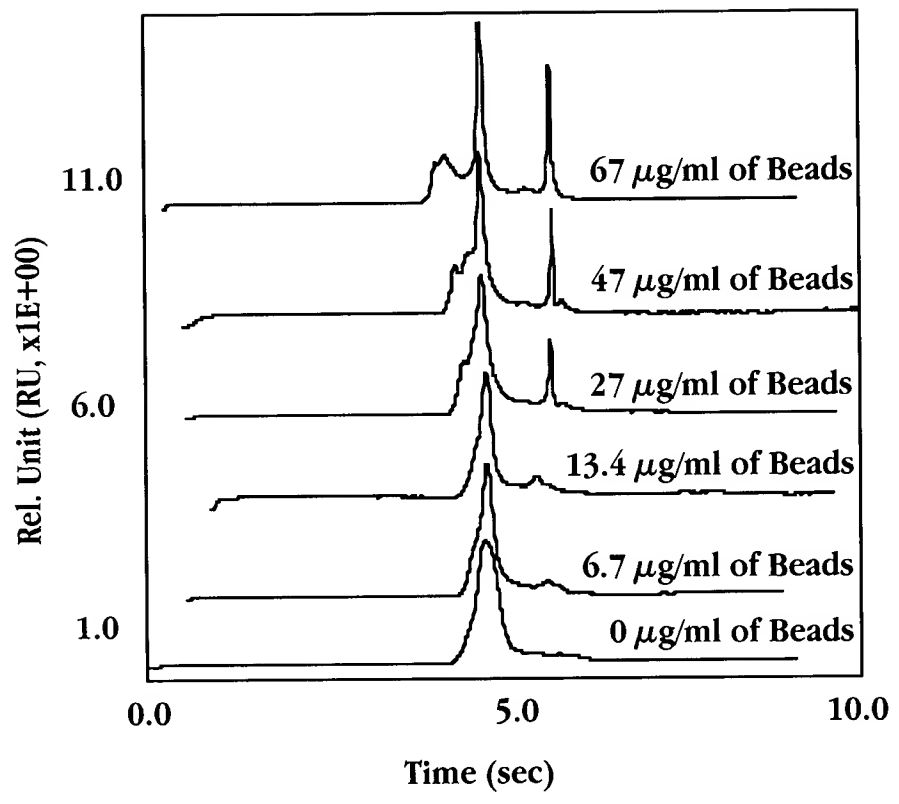


Fig. 30

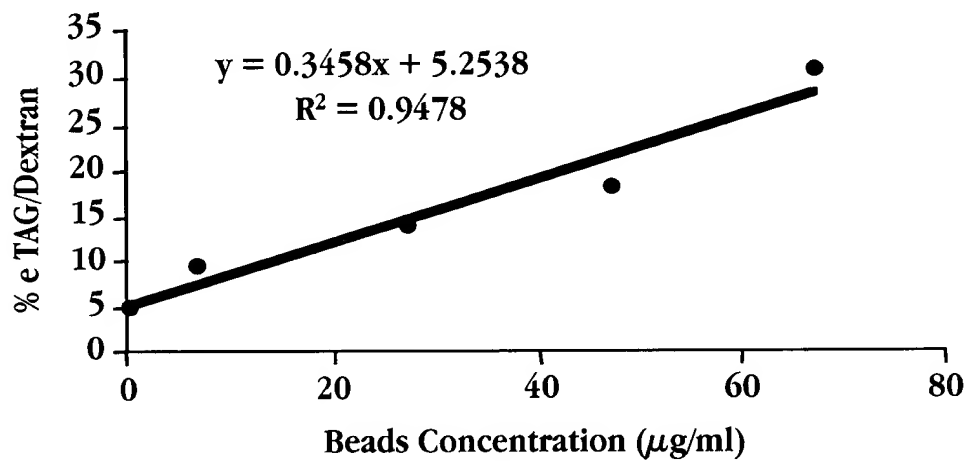


Fig. 31

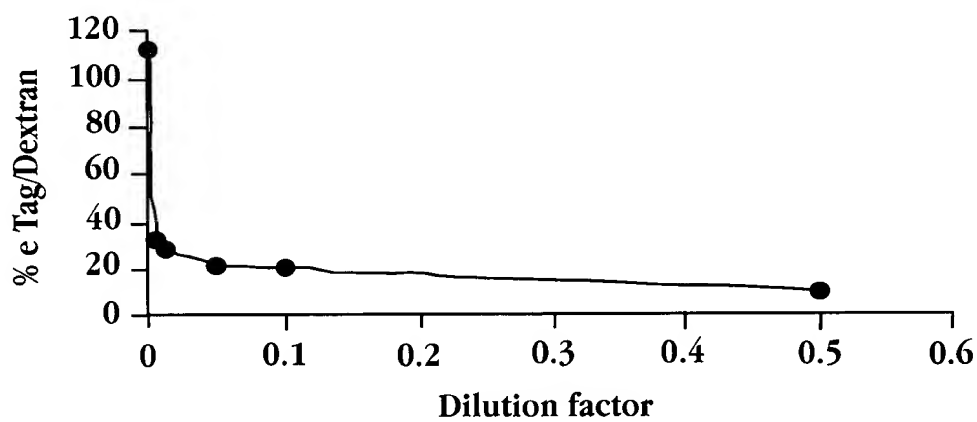


Fig. 32

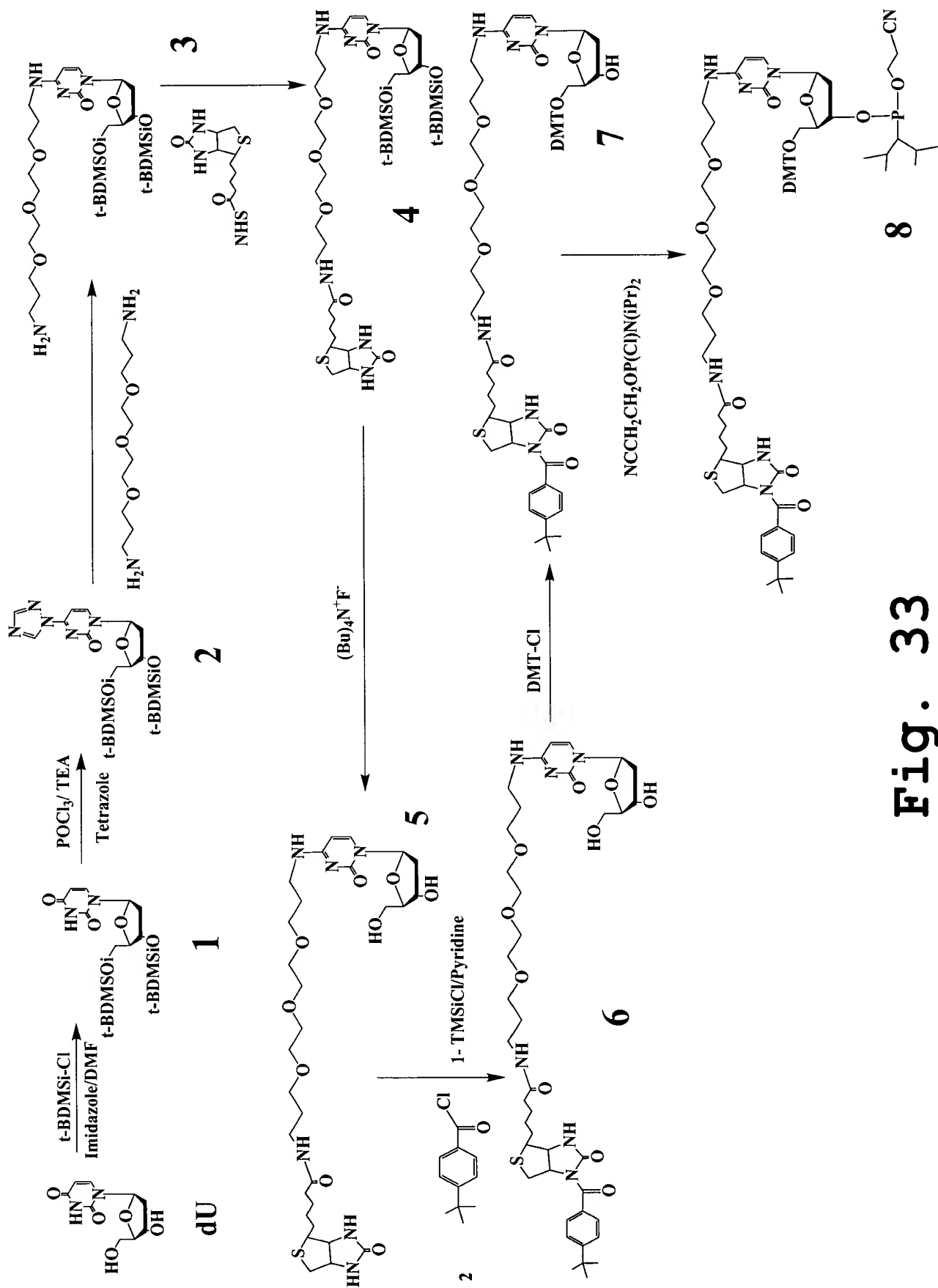


Fig. 33

